				ဂ္က	റ്റി	0	ဂ္ဂ	9	2	ဂ္ဂ	റ്റ	\$	്ല	DE E.			
		RF Band Top	MHz	1	ı	- 1	2151.50	- 1	2154.	2155.50	2155.(2157.40	2157.	= RF Freq + (Bandwidth/2)			<u> </u>
		RF Band Bottom	MHz	2151.40	2150.10	2150.30	2150.70	2151.50	2153.10	2154.70	2155.50	2156.60	2157.40	= RF Freq - (Bandwidth/2)			
		WMTS Input Frequency	MHz	53.00	50.20	50.50	51.10	52.30	53.90	55.10	55.70	57.00	57.60	= RF Freq - Upstream LO		0	
		WMU Output Frequency	MHz	17.375	14.575	14.875	15.475	16.675	18.275	19.475	20.075	21.375	21.975	= RF Freq - transverter offs	2*symbol	if 16QAM=4*symbol	
		Data Rate	BpS	5120	640	1280	2560	2560	5120	1280	640	1280	640		if QPSK=2*symbol	f 16QAM	
		Symbol Rate	KHZ	2560	160	320	640	1280	1280	640	320	640	320	= bandwidth/1.25			
		FEC Factor		þ	C	3	a	ಹ	q	q	В	ပ	q				
		Transverter Offset	MHz	2135.625	2135.625	2135.625	2135.625	2135.625	2135.625	2135.625	2135.625	2135.625	2135.625			A modem's profile is made up of its Downstream and Upstream IfIndexes	
		Upstream Downconverter LO	MHz	2100	2100	2100	2100	2100	2100	2100	2100	2100	2100			nd Upstrea	-
		Modulation Type		QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	QPSK	OPSK	QPSK	select		stream ar	of profile
	:Table	Channel Bandwidth	KHZ	1				1600	1600	000	400	800	400	select		f its Dowr	ood for th
Upstream Summary Table	DocsIFUpstreamChannelTable	RF Frequency	MHz	2153.00	2150.20	2150.50	2151.10	2152.30	2153.90	2155.10	2155.70	2157.00	2157.60	Bold are operators inputs		made up c	ELC factor is the time of EEC used for that pro
ary	stre	 Sector		A	m	М	В	В	B	В	В	ш		Jrs j		e is	1
mm	E I	 Card Port	T	A	A	В	U		ш	ш	4		A	erato		rofil	\$
n Su	Soc	Slot	T	-	7						3	-		QO 6		n's r	2 3
rean	e: D	WMTS ID		4	A	A	4			4	A	: 4	: <	d are			
bst	Table:	IfIndex		╁╾	7	-		. 2	9	_	0	_] W	

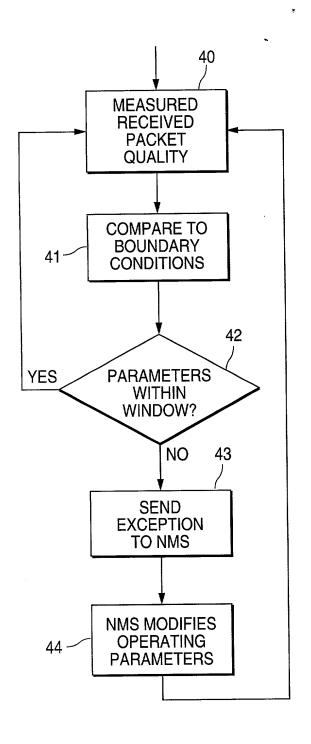
FIG. 1

Bandwidth/Mo	odulation tradeoffs				
downstream	assume 64 QAM and 6 MHz as	reference			
	required S/N for 10^-6		27	21.5	13.5
	Modulation		64 QAM	16 QAM	QPSK
		Bandwidth			
		6000	0.0	5.5	13.5
Downstream		2000	4.8	10.3	18.3
		1000	7.8	13.3	21.3
Up Stream	assume 16 QAM and 2 MHz as required S/N for 10^-6 Modulation	s reference		21.5 16 QAM	13.5 QPSK
	Modulation	Bandwidth		TO WAIN	QFOR
		3200		0.0	8.0
		1600		3.0	11.0
		800		6.0	14.0
		400		9.0	17.0
		200		12.0	20.0

FIG. 2

								•									 1
RF Band Top	MHz	2512.00	2514.00	2512.00	2519.00	2520.00	2521.00	2522.00	2523.00	2524 00	2024.00	2524.00	= RF Freq + (Bandwidth/2)				
RF Band Bottom		2506.00	2512.00	2506.00	2518.00	2519.00	2520.00	2521.00	2522.00	2522 00	2323.00	2518.00	= RF Freq - (Bandwidth/2)				
WMTS Output Frequency	MHz	44.00	42.00	44.00	41.50	42.50	43.50	44.50	45.50	10.50	40.30	44.00	= RF Freq - WMTS LO		lo	lo	loq
WMU Input Frequency		231.00	235.00	231.00	240.50	241.50	242.50	243.50	244 50	2 2 2	745.50	243.00	= RF Freq - WMU LO	QPSK=2*symbol	16QAM=4*symbol	64QAM=6*symbo	256QAM=8*symbol
Data Rate		30000	6667	30000	1667	1667	1667	1667	1667	100	/001	10000		if QPSK-	if 16QAN	if 64QAN	if 256QA
Symbol Rate	KHZ	2000	1667	2000	833	833	833	833	222	3 8	833	5000	= bandwidth/1.25				
FEC Factor		ಹ	ပ	ပ	_	↓	٩	٩	4-	-	ပ	q			y s		
Transverter LO	MH2	2278	2278	2278	2278	2278	2278	9278	0240	0/77	2278	2278			and Unstream IfIndexes		
Transmitter LO	MH2	2465	2471	2465	2477	2477	2477	2477	2477	7/47	2477	2477			I Instrea	200	
Modulation Type		640AM	160AM		OPSK	OPSK	OPSK	NDOK NDOK			QPSK	OPSK	selec	t			
Channel Bandwidth		8000	2000	8000		1000	000				1000			t	of ite Dow	SI 10	
RF Frequency		2509 00	2513.00	2500 00	2519.00	2510.30	2500 50	00070	UC.1202	2522.50	2523 50	2521.00	00.1		0000	A modern's prome is made up of its bownshous	
Sector		<	<	כם	م د	ی د	ی د	ی اد	ر	ပ	c	٥	7		_ :	2	
Card Port		<	٥ ک			X 0			_	ш	Ц					2	
Slot			- 0	7 0	7 0	7 0	7 0	7	7	က		r u			_ {	SEE	
WMTS ID		<	_						⋖	⋖				L			
IfIndex		1	- c	7 0	2) z	4 r	ဂ	0 1		∞	0	2 6	2		_	¥	

FIG. 3



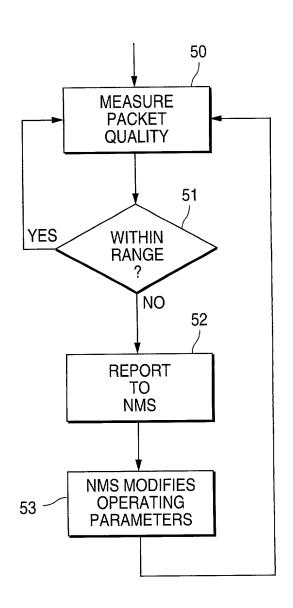


FIG. 5

FIG. 4